

ABSTRACT

Reinforced high early-strength cementitious members are made from water and
5 strength generating ingredients, which include a hydraulic cement, a polycarboxylate
dispersant and structural synthetic fiber. The strength generating ingredients provide
corrosion resistance by avoiding the use of steel reinforcing members, increased ductility
and load bearing capacity while developing a high early-strength of at least about 1,400
pounds per square inch (psi) flexural strength and at least about 7,500 pounds per square
10 inch (psi) compressive strength within about 24 hours after placing the cementitious
composition in a mold.